SEQUENCE LISTING

<110> Yu, Xuanchuan
     Turner, C. Alexander Jr.

<120> Novel Human Protease and Polynucleotides Encoding the Same

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<150> US 60/261,684
<151> 2001-01-12

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            35                  40                  45
Cys Gly Gly Gly Ala Ser Tyr Ser Leu Arg Arg Cys Leu Ser Ser Lys
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Ser Cys Glu Gly Arg Asn Ile Arg Tyr Arg Thr Cys Ser Asn Val Asp
65                  70                  75                  80
Cys Pro Pro Glu Ala Gly Asp Phe Arg Ala Gln Gln Cys Ser Ala His
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Asn Asp Val Lys His His Gly Gln Phe Tyr Glu Trp Leu Pro Val Ser
            100                 105                 110
Asn Asp Pro Asp Asn Pro Cys Ser Leu Lys Cys Gln Ala Lys Gly Thr
            115                 120                 125
Thr Leu Val Val Glu Leu Ala Pro Lys Val Leu Asp Gly Thr Arg Cys
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Tyr Thr Glu Ser Leu Asp Met Cys Ile Ser Gly Leu Cys Gln Ile Val
145                 150                 155                 160
Gly Cys Asp His Gln Leu Gly Ser Thr Val Lys Glu Asp Asn Cys Gly
            165                 170                 175
Val Cys Asn Gly Asp Gly Ser Thr Cys Arg Leu Val Arg Gly Gln Tyr
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Lys Ser Gln Leu Ser Ala Thr Lys Ser Asp Asp Thr Val Val Ala Ile
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Pro Tyr Gly Ser Arg His Ile Arg Leu Val Leu Lys Gly Pro Asp His
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Leu Tyr Leu Glu Thr Lys Thr Leu Gln Gly Thr Lys Gly Glu Asn Ser
225                 230                 235                 240
Leu Ser Ser Thr Gly Thr Phe Leu Val Asp Asn Ser Ser Val Asp Phe
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Gln Lys Phe Pro Asp Lys Glu Ile Leu Arg Met Ala Gly Pro Leu Thr
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Ala Asp Phe Ile Val Lys Ile Arg Asn Ser Gly Ser Ala Asp Ser Thr
            275                 280                 285
Val Gln Phe Ile Phe Tyr Gln Pro Ile Ile His Arg Trp Arg Glu Thr
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Asp Phe Phe Pro Cys Ser Ala Thr Cys Gly Gly Gly Tyr Gln Leu Thr
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Ser Ala Glu Cys Tyr Asp Leu Arg Ser Asn Arg Val Val Ala Asp Gln
            325                 330                 335
Tyr Cys His Tyr Tyr Pro Glu Asn Ile Lys Pro Lys Pro Lys Leu Gln
            340                 345                 350
Glu Cys Asn Leu Asp Pro Cys Pro Ala Ser Asp Gly Tyr Lys Gln Ile
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Met Pro Tyr Asp Leu Tyr His Pro Leu Pro Arg Trp Glu Ala Thr Pro
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                420                 425                 430
Asn Ile Phe Asp Cys Pro Lys Trp Leu Ala Gln Glu Trp Ser Pro Cys
            435                 440                 445
Thr Val Thr Cys Gly Gln Gly Leu Arg Tyr Arg Val Val Leu Cys Ile
        450                 455                 460
Asp His Arg Gly Met His Thr Gly Gly Cys Ser Pro Lys Thr Lys Pro
465                 470                 475                 480
His Ile Lys Glu Glu Cys Ile Val Pro Thr Pro Cys Tyr Lys Pro Lys
                485                 490                 495
Glu Lys Leu Pro Val Glu Ala Lys Leu Pro Trp Phe Lys Gln Ala Gln
                500                 505                 510
Glu Leu Glu Glu Gly Ala Ala Val Ser Glu Glu Pro Ser Phe Ile Pro
            515                 520                 525
Glu Ala Trp Ser Ala Cys Thr Val Thr Cys Gly Val Gly Thr Gln Val
        530                 535                 540
Arg Ile Val Arg Cys Gln Val Leu Leu Ser Phe Ser Gln Ser Val Ala
545                 550                 555                 560
Asp Leu Pro Ile Asp Glu Cys Glu Gly Pro Lys Pro Ala Ser Gln Arg
                565                 570                 575
Ala Cys Tyr Ala Gly Pro Cys Ser Gly Glu Ile Pro Glu Phe Asn Pro
            580                 585                 590
Asp Glu Thr Asp Gly Leu Phe Gly Gly Leu Gln Asp Phe Asp Glu Leu
            595                 600                 605
Tyr Asp Trp Glu Tyr Glu Gly Phe Thr Lys Cys Ser Glu Ser Cys Gly
    610                 615                 620
Gly Gly Val Gln Glu Ala Val Val Ser Cys Leu Asn Lys Gln Thr Arg
625                 630                 635                 640
Glu Pro Ala Glu Glu Asn Leu Cys Val Thr Ser Arg Arg Pro Pro Gln
                645                 650                 655
Leu Leu Lys Ser Cys Asn Leu Asp Pro Cys Pro Ala Arg Trp Glu Ile
            660                 665                 670
Gly Lys Trp Ser Pro Cys Ser Leu Thr Cys Gly Val Gly Leu Gln Thr
        675                 680                 685
Arg Asp Val Phe Cys Ser His Leu Leu Ser Arg Glu Met Asn Glu Thr
    690                 695                 700
Val Ile Leu Ala Asp Glu Leu Cys Arg Gln Pro Lys Pro Ser Thr Val
705                 710                 715                 720
Gln Ala Cys Asn Arg Phe Asn Cys Pro Pro Ala Trp Tyr Pro Ala Gln
            725                 730                 735
Trp Gln Pro Cys Ser Arg Thr Cys Gly Gly Gly Val Gln Lys Arg Glu
            740                 745                 750
Val Leu Cys Lys Gln Arg Met Ala Asp Gly Ser Phe Leu Glu Leu Pro
        755                 760                 765
Glu Thr Phe Cys Ser Ala Ser Lys Pro Ala Cys Gln Gln Ala Cys Lys
    770                 775                 780
Lys Asp Asp Cys Pro Ser Glu Trp Leu Leu Ser Asp Trp Thr Glu Cys
785                 790                 795                 800
Ser Thr Ser Cys Gly Glu Gly Thr Gln Thr Arg Ser Ala Ile Cys Arg
                805                 810                 815
Lys Met Leu Lys Thr Gly Leu Ser Thr Val Val Asn Ser Thr Leu Cys
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4

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Ala Ala Arg Lys Val Tyr Ile Gln Thr Arg Arg Gln Arg Lys Leu His
865             870             875             880
Phe Val Val Gly Gly Phe Ala Tyr Leu Leu Pro Lys Thr Ala Val Val
            885             890             895
Leu Arg Cys Pro Ala Arg Arg Val Arg Lys Pro Leu Ile Thr Trp Glu
        900             905             910
Lys Asp Gly Gln His Leu Ile Ser Ser Thr His Val Thr Val Ala Pro
        915             920             925
Phe Gly Tyr Leu Lys Ile His Arg Leu Lys Pro Ser Asp Ala Gly Val
        930             935             940
Tyr Thr Cys Ser Ala Gly Pro Ala Arg Glu His Phe Val Ile Lys Leu
945             950             955             960
Ile Gly Gly Asn Arg Lys Leu Val Ala Arg Pro Leu Ser Pro Arg Ser
            965             970             975
Glu Glu Glu Val Leu Ala Gly Arg Lys Gly Gly Pro Lys Glu Ala Leu
            980             985             990
Gln Thr His Lys His Gln Asn Gly Ile Phe Ser Asn Gly Ser Lys Ala
        995             1000            1005
Glu Lys Arg Gly Leu Ala Ala Asn Pro Gly Ser Arg Tyr Asp Asp Leu
        1010            1015            1020
Val Ser Arg Leu Leu Glu Gln Gly Gly Trp Pro Gly Glu Leu Leu Ala
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Ser Trp Glu Ala Gln Asp Ser Ala Glu Arg Asn Thr Thr Ser Glu Glu
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Asp Pro Gly Ala Glu Gln Val Leu Leu His Leu Pro Phe Thr Met Val
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Thr Glu Gln Arg Arg Leu Asp Asp Ile Leu Gly Asn Leu Ser Gln Gln
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Pro Glu Glu Leu Arg Asp Leu Tyr Ser Lys His Leu Val Ala Gln Leu
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Ala Gln Glu Ile Phe Arg Ser His Leu Glu His Gln Asp Thr Leu Leu
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Lys Pro Ser Glu Arg Arg Thr Ser Pro Val Thr Leu Ser Pro His Lys
            1125            1130            1135
His Val Ser Gly Phe Ser Ser Ser Leu Arg Thr Ser Ser Thr Gly Asp
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Ala Gly Gly Gly Ser Arg Arg Pro His Arg Lys Pro Thr Ile Leu Arg
            1155            1160            1165
Lys Ile Ser Ala Ala Gln Gln Leu Ser Ala Ser Glu Val Val Thr His
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Leu Gly Gln Thr Val Ala Leu Ala Ser Gly Thr Leu Ser Val Leu Leu
1185            1190            1195            1200
His Cys Glu Ala Ile Gly His Pro Arg Pro Thr Ile Ser Trp Ala Arg
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Asn Gly Glu Glu Val Gln Phe Ser Asp Arg Ile Leu Leu Gln Pro Asp
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Asp Ser Leu Gln Ile Leu Ala Pro Val Glu Ala Asp Val Gly Phe Tyr
        1235            1240            1245
Thr Cys Asn Ala Thr Asn Ala Leu Gly Tyr Asp Ser Val Ser Ile Ala
        1250            1255            1260
Val Thr Leu Ala Gly Lys Pro Leu Val Lys Thr Ser Arg Met Thr Val
1265            1270            1275            1280
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Val Pro Glu Ala Glu Val Thr Trp Phe Arg Asn Lys Ser Lys Leu Gly
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Ser Pro His His Leu His Glu Gly Ser Leu Leu Leu Thr Asn Val Ser
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Ser Ser Asp Gln Gly Leu Tyr Ser Cys Arg Ala Ala Asn Leu His Gly
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Glu Leu Thr Glu Ser Thr Gln Leu Leu Ile Leu Asp Pro Pro Gln Val
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Pro Thr Gln Leu Glu Asp Ile Arg Ala Leu Leu Ala Ala Thr Gly Pro
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Asn Leu Pro Ser Val Leu Thr Ser Pro Leu Gly Thr Gln Leu Val Leu
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Asp Pro Gly Asn Ser Ala Leu Leu Gly Cys Pro Ile Lys Gly His Pro
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Val Pro Asn Ile Thr Trp Phe His Gly Gly Gln Pro Ile Val Thr Ala
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Thr Gly Leu Thr His His Ile Leu Ala Ala Gly Gln Ile Leu Gln Val
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Ala Asn Leu Ser Gly Gly Ser Gln Gly Glu Phe Ser Cys Leu Ala Gln
            1460                1465                1470
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            1475                1480                1485
Tyr Trp Trp Ser Val Asp Arg Leu Ala Thr Cys Ser Ala Ser Cys Gly
            1490                1495                1500
Asn Arg Gly Val Gln Gln Pro Arg Leu Arg Cys Leu Leu Asn Ser Thr
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Glu Val Asn Pro Ala His Cys Ala Gly Lys Val Arg Pro Ala Val Gln
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Pro Ile Ala Cys Asn Arg Arg Asp Cys Pro Ser Arg Trp Met Val Thr
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            1570                1575                1580
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Gln Cys Asn Gly Pro Cys Ile Gly Pro His Leu Ala Val Gln His Arg
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Ala Arg Thr Asn Lys Ala Val Pro Glu His Leu Cys Ser Trp Gly Pro
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Arg Pro Ala Asn Trp Gln Arg Cys Asn Ile Thr Pro Cys Glu Asn Met
            1715                1720                1725
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6

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Lys Ala
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